Western Carolina University

Utilities at a Glance

Western Carolina University Utilities

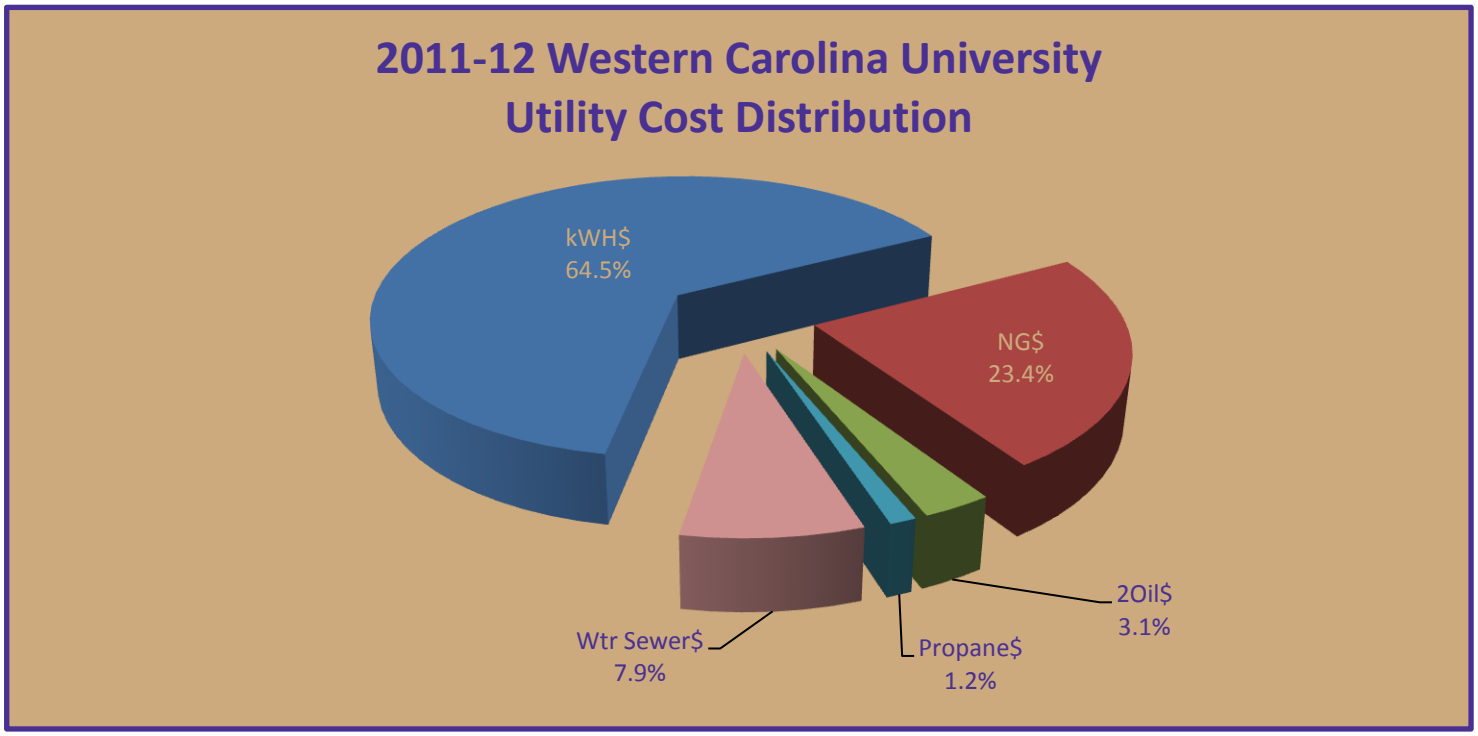
Metric	Basline 2002-2003	Current 2011-2012	% change
Gross square feet	2,355,330	2,954,814	25%
Btu per square foot per year	178,603	116,336	-35%
Cost per million Btu	$ 6.36	$ 11.51	81%
Total Avoided Cost		$16,752,128.53	
Electric consumption in kWh	34,665,600	45,643,200	32%
Electric Cost	$ 1,604,515	$ 2,771,168	73%
Natural Gas consumption in Therms	1,444,810	1,802,724	25%
Natural Gas Cost	$ 111,053	$ 1,002,984	803%
#2 Fuel oil gallons	47,971	39,509	-18%
#2 Fuel oil cost	$ 51,114	$ 131,259	157%
#6 Fuel oil gallons	996,969	0	-100%
#6 Fuel oil cost	$ 888,599	$ -	-100%
Propane gallons	22,026	24,713	12%
Propane cost	$ 21,038	$ 50,194	139%
Steam thousands of pounds	0	0	%
Steam cost	$ -	$ -	%
Chilled Water tons	0	0	%
Chilled Water cost	$ -	$ -	%
Water thousands of gallons	122,056	105,121	-14%
Water & Sewer cost	$ 399,494	$ 337,541	-16%

Western Carolina University

Year End Utility Comparison

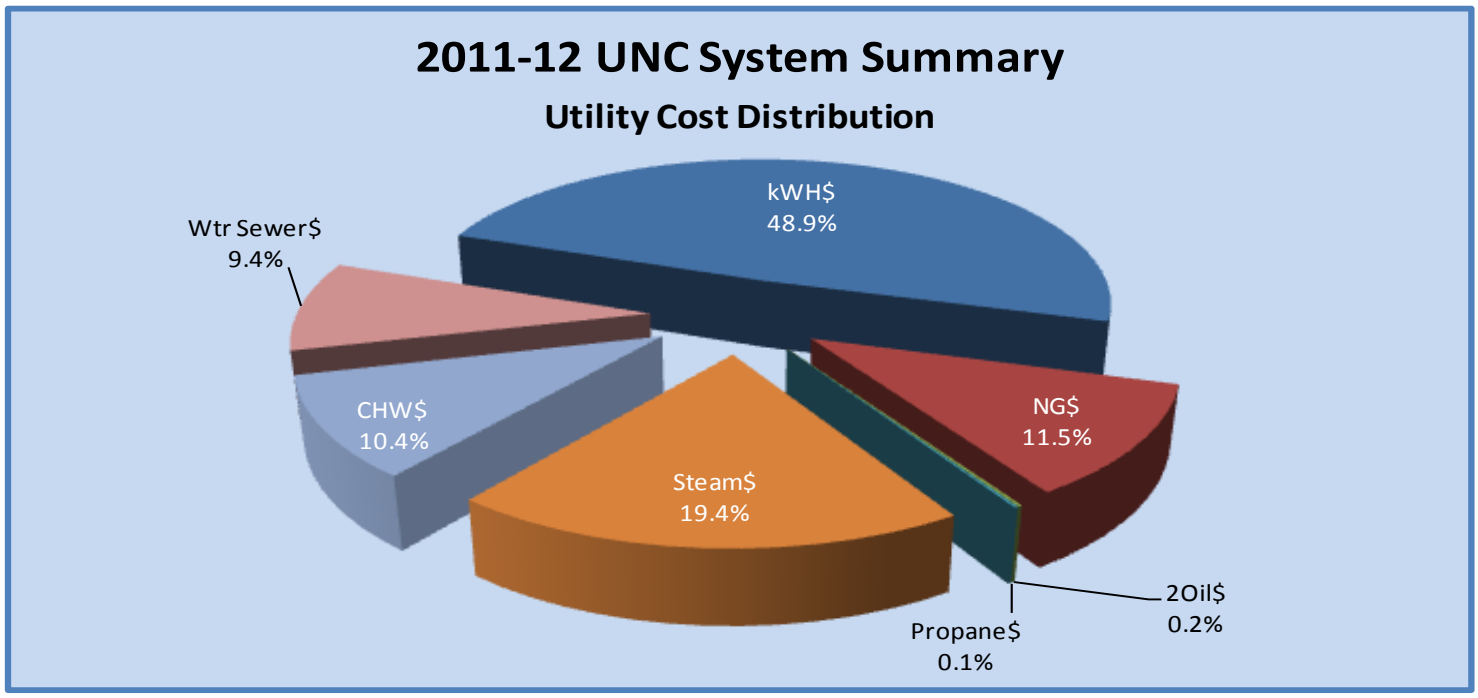
Western Carolina University Utilities Summary 2011-2012

kWH$	NG$	2Oil$	6Oil$	Propane$	Steam$	CHW$	Wtr Sewer$	Total Utility $
$ 2,771,168	$ 1,002,984	$ 131,259		$ 50,194			$ 337,541	$ 4,293,145



UNC System Utilities Summary 2011-2012

kWH$	NG$	2Oil$	6Oil$	Propane$	Steam$	CHW$	Wtr Sewer$	Total Utility $
$ 100,880,958	$ 23,768,828	$ 310,240		$ 288,450	$ 40,097,298	$ 21,506,927	$ 19,382,528	$ 206,235,229

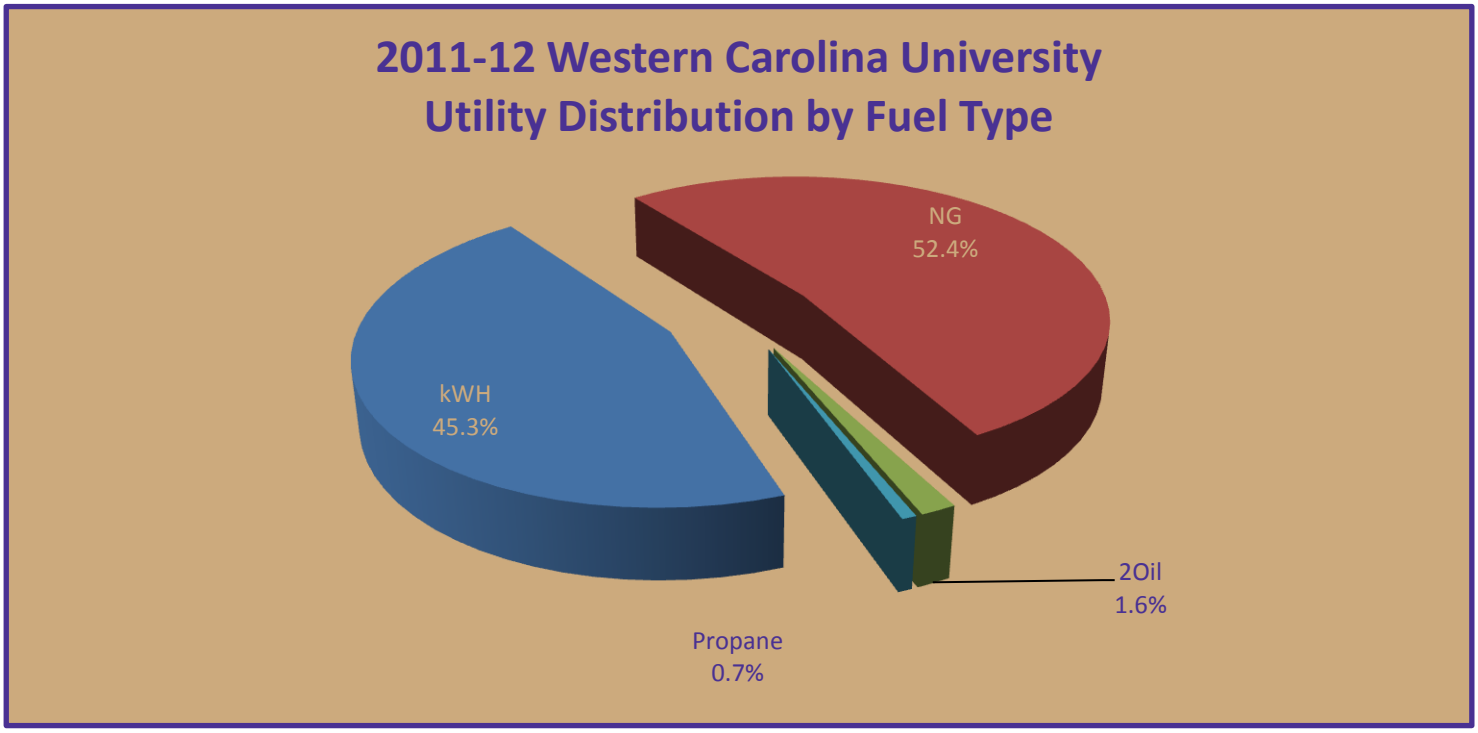


Western Carolina University

Year End Btu by Fuel Type for 2011-2012

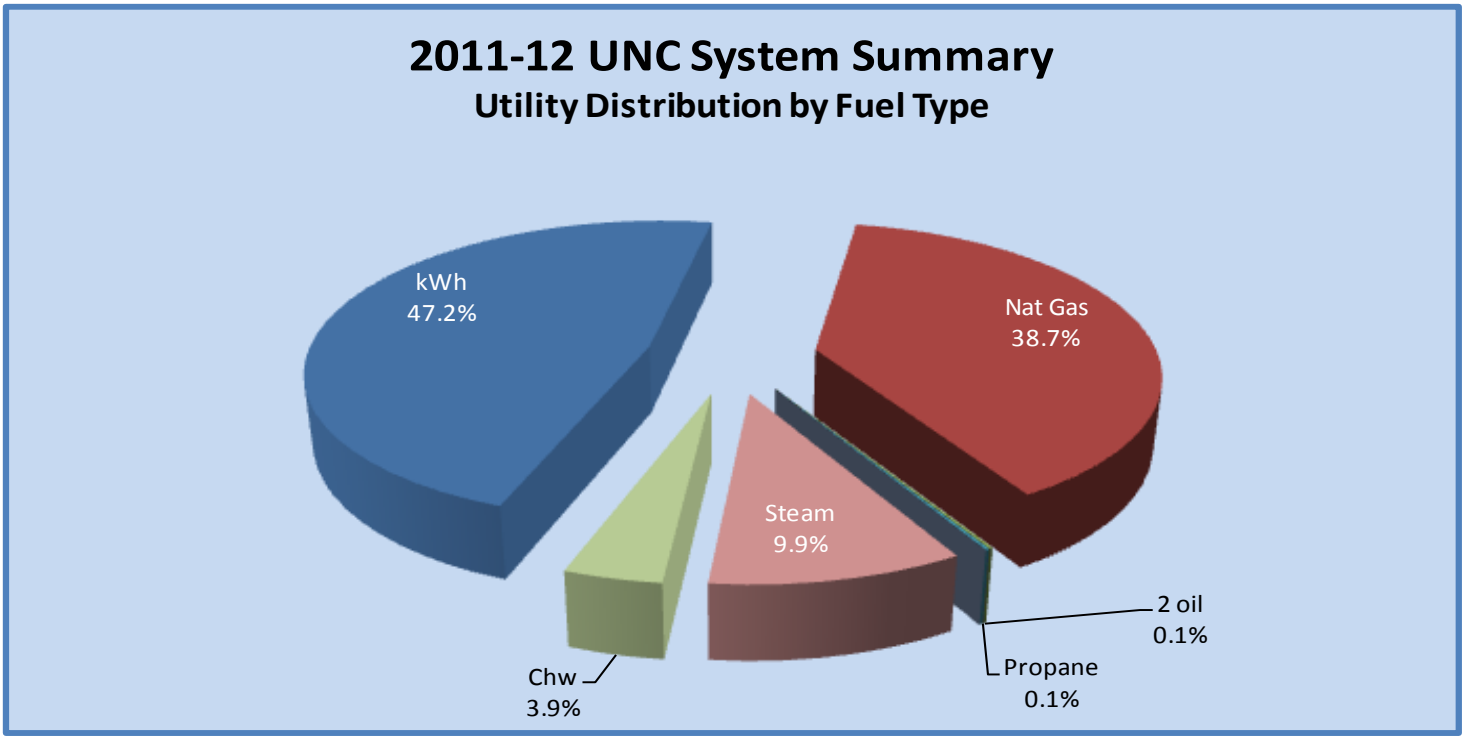
Western Carolina University Btu by Fuel Type 2011-2012

kWH	NG	2Oil	6Oil	Propane	Steam	CHW	Total Btu
155,734,598,400	180,272,400,000	5,479,481,357		2,264,860,365			343,751,340,122



UNC System Btu by Fuel Type 2011-2012

kWH	NG	2Oil	6Oil	Propane	Steam	CHW	Total Btu
4,618,961,326,972	3,784,820,700,000	12,792,076,660		14,094,179,328	968,012,814,000	377,290,300,344	9,775,971,397,304

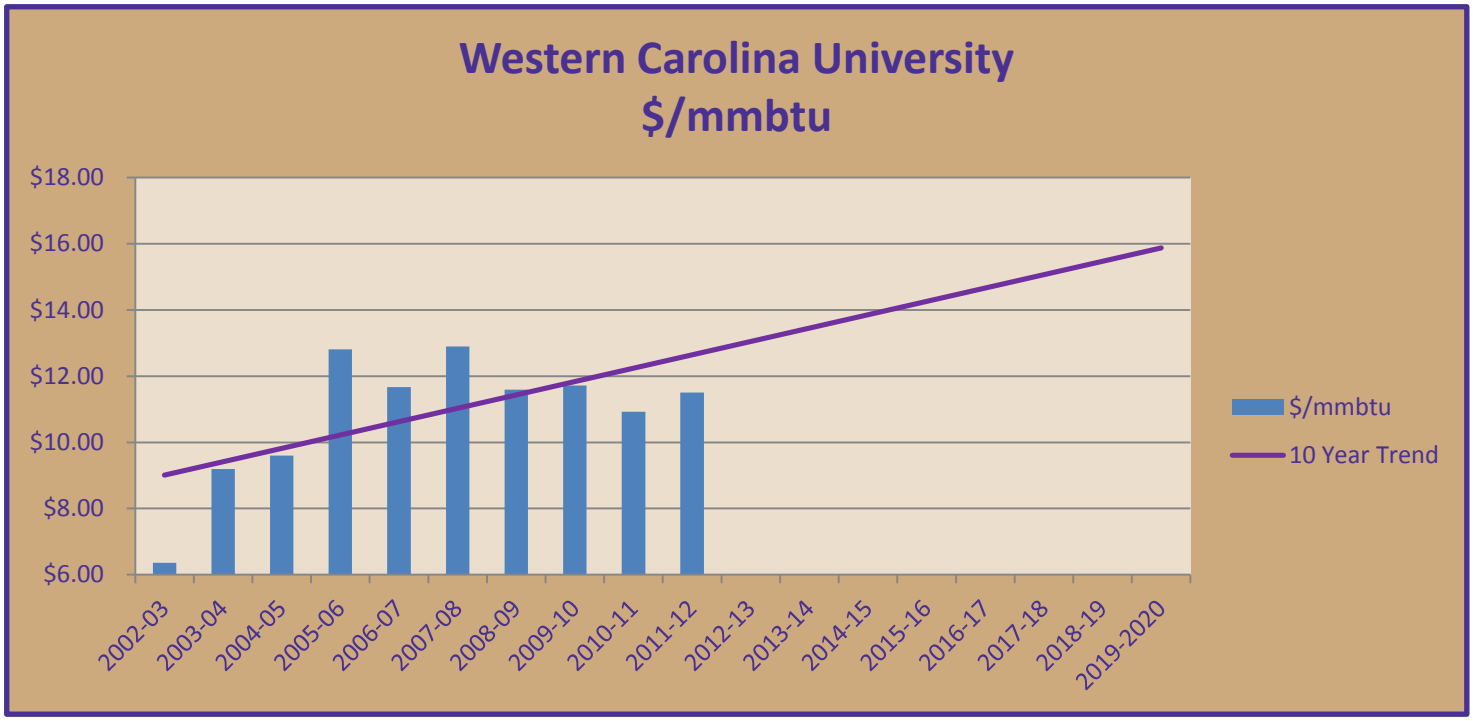


Western Carolina University

10 Year Energy $/mmbtu Evaluation 2003-2012 & Trend Through 2020

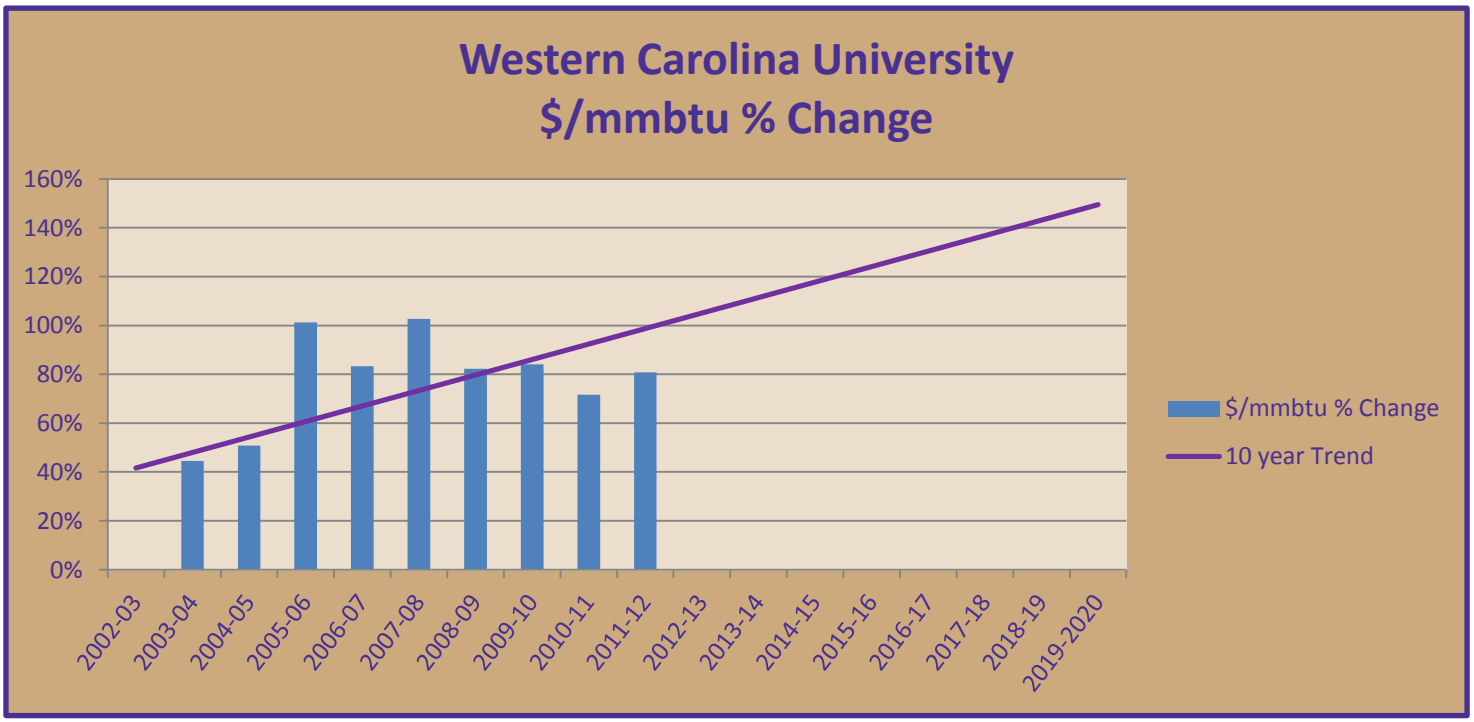
Western Carolina University Energy $/mmbtu

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
$ 6.36	$ 9.19	$ 9.60	$ 12.81	$ 11.66	$ 12.90	$ 11.60	$ 11.71	$ 10.92
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
$ 11.51								



Western Carolina University Energy $/mmbtu % Change

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
0%	44%	51%	101%	83%	103%	82%	84%	72%
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
81%								

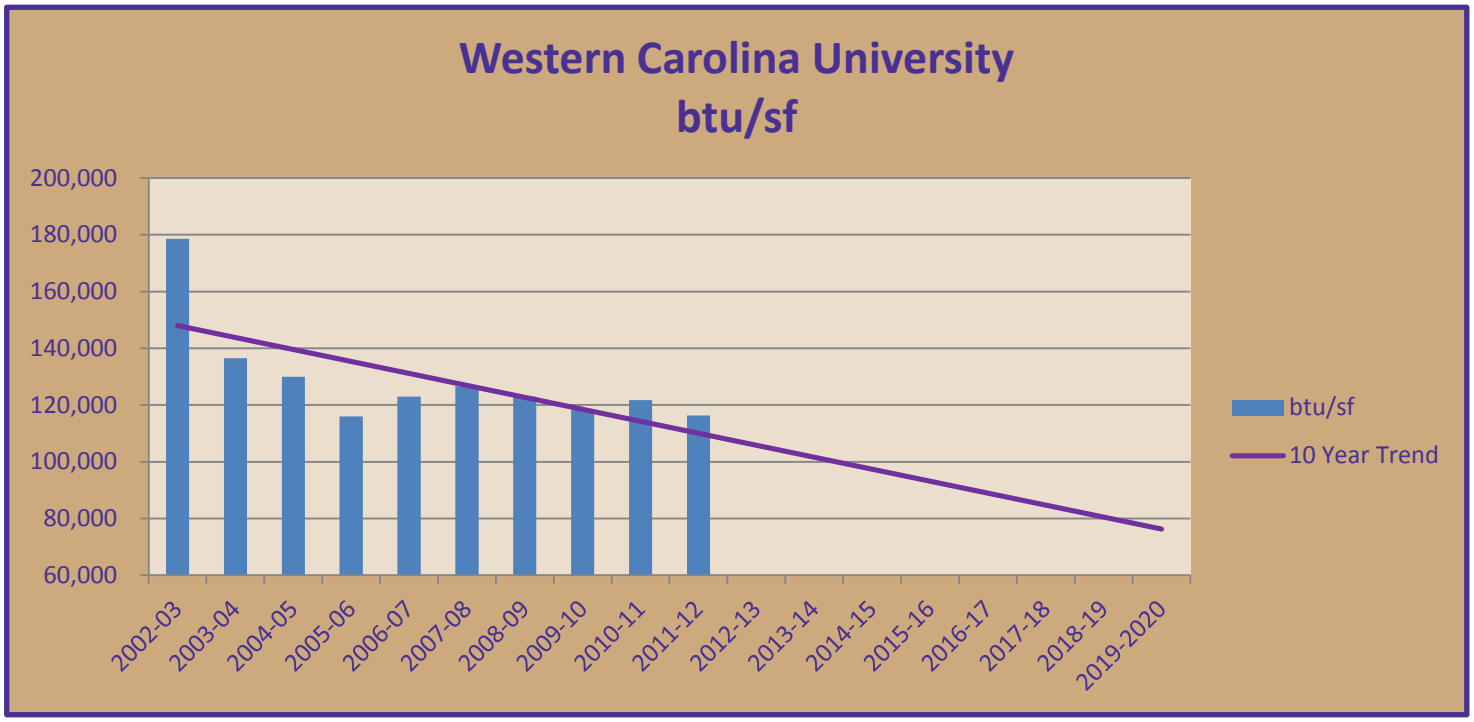


Western Carolina University

10 Year Energy btu/sf Evaluation 2003-2012 & Trend Through 2020

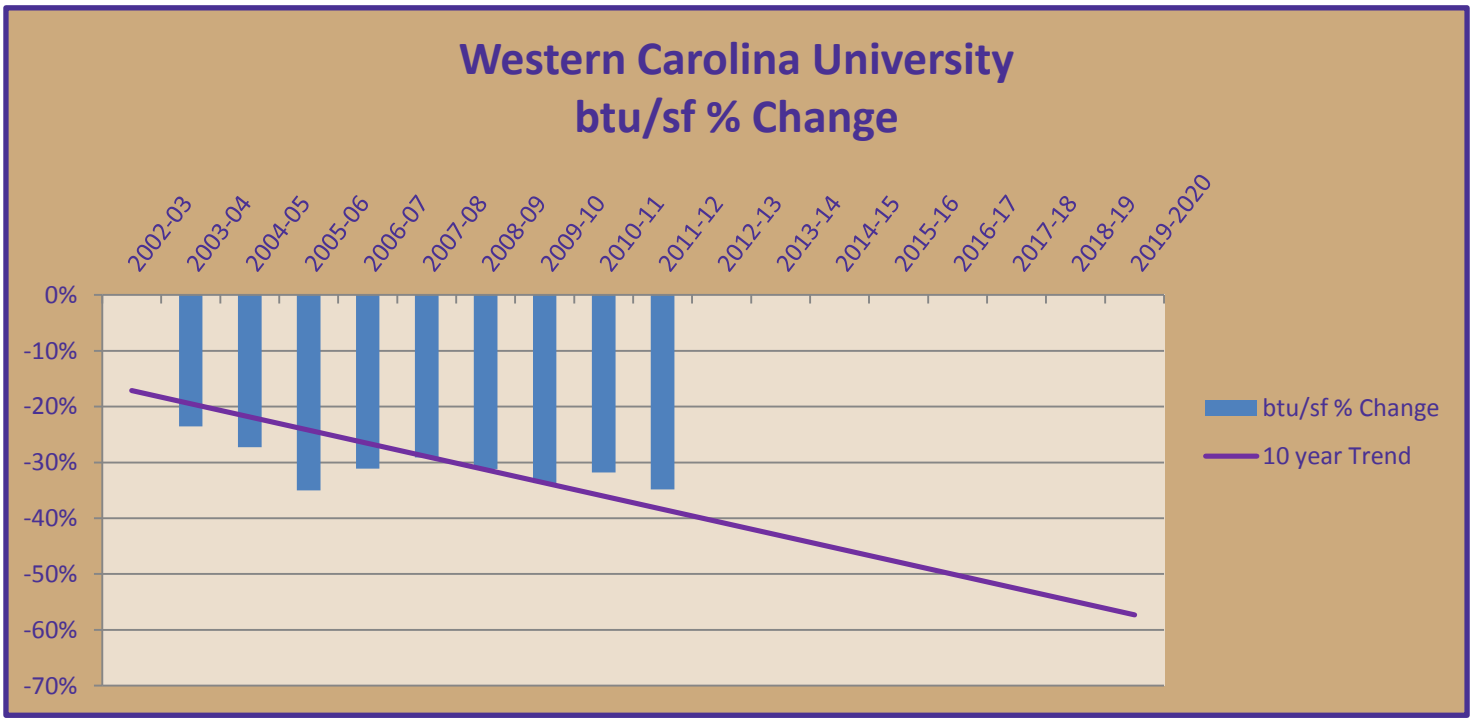
Western Carolina University Energy btu/sf

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
178,603	136,564	129,915	116,027	123,007	126,579	122,943	118,439	121,766
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
116,336								



Western Carolina University Energy btu/sf % Change

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
0%	-24%	-27%	-35%	-31%	-29%	-31%	-34%	-32%
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
-35%								

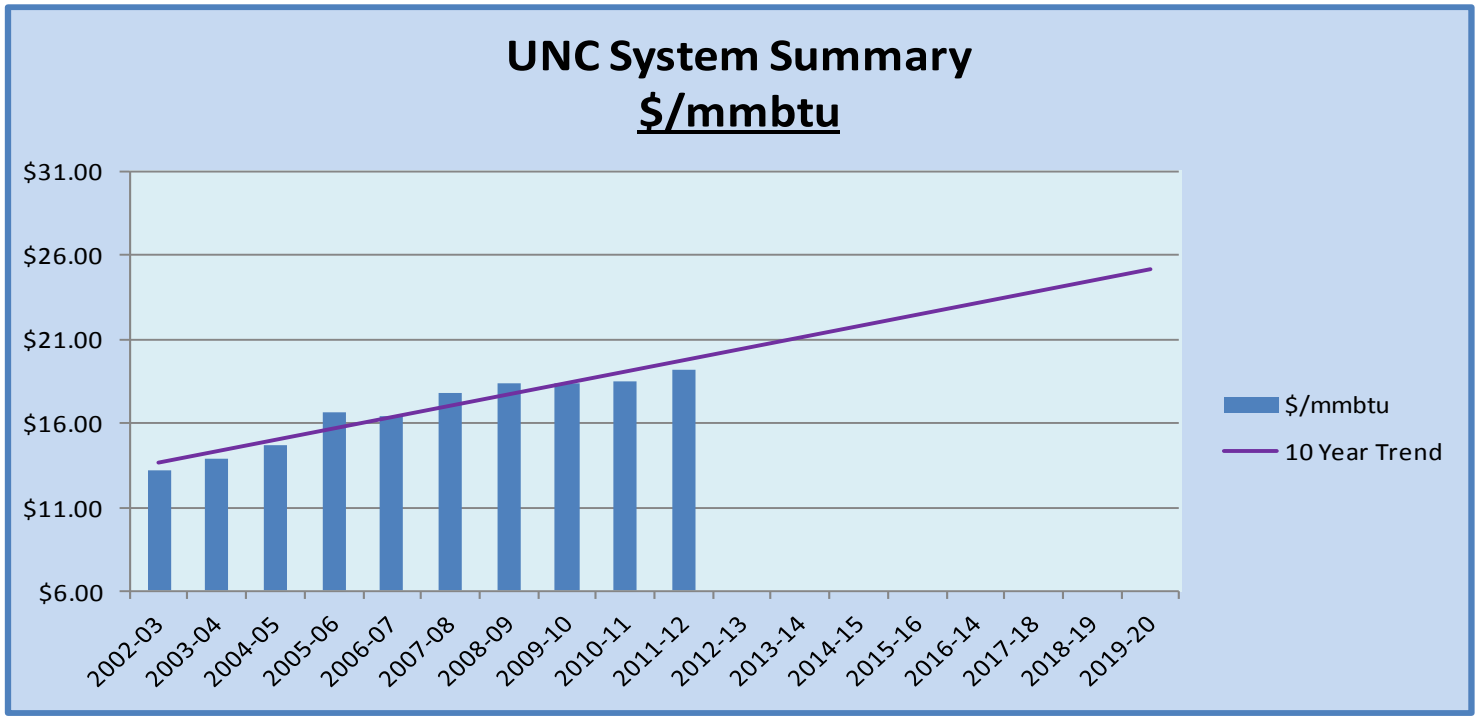


UNC System Summary

10 Year Energy $/mmbtu Evaluation 2003-2012 & Trend Through 2020

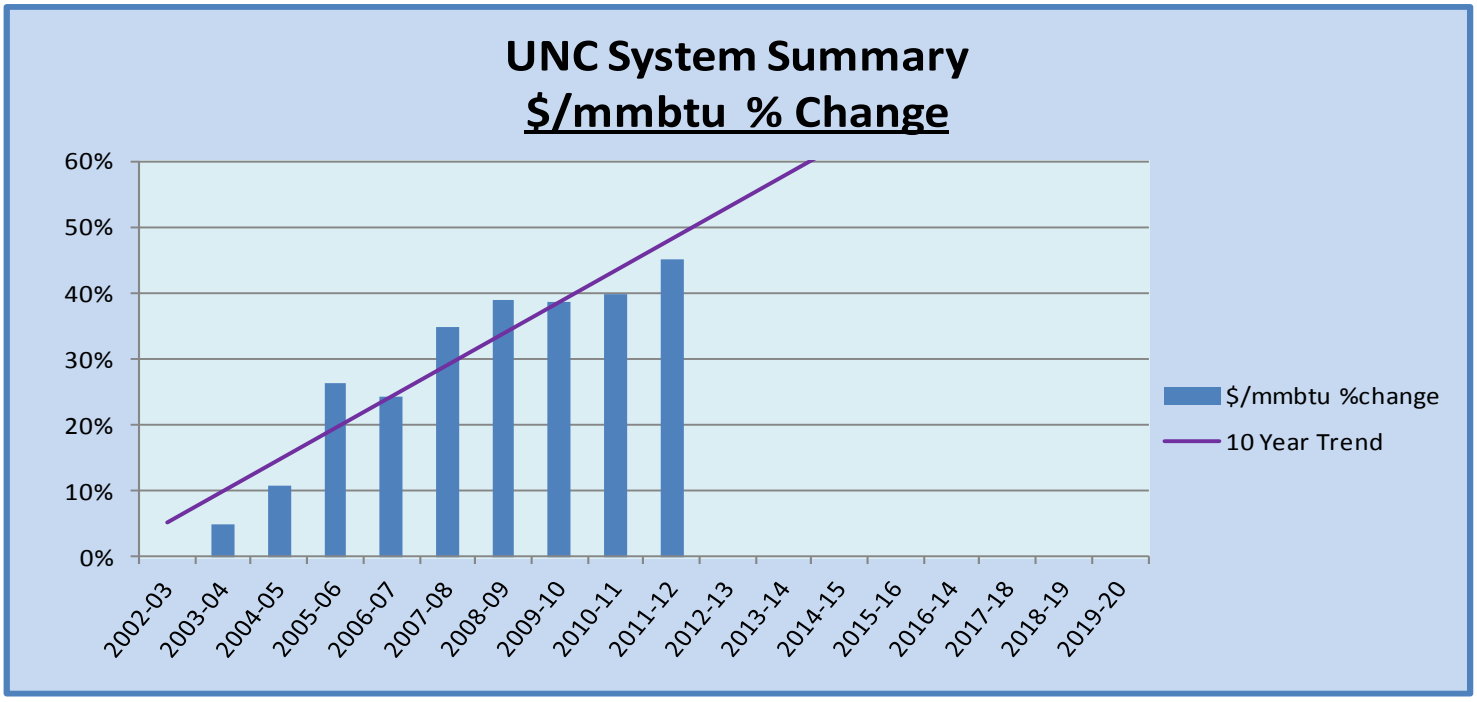
UNC System Energy $/mmbtu

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
$ 13.22	$ 13.86	$ 14.67	$ 16.69	$ 16.43	$ 17.85	$ 18.37	$ 18.36	$ 18.49
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
$ 19.19								



UNC System Energy $/mmbtu % Change

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
0%	5%	11%	26%	24%	35%	39%	39%	40%
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
45%								

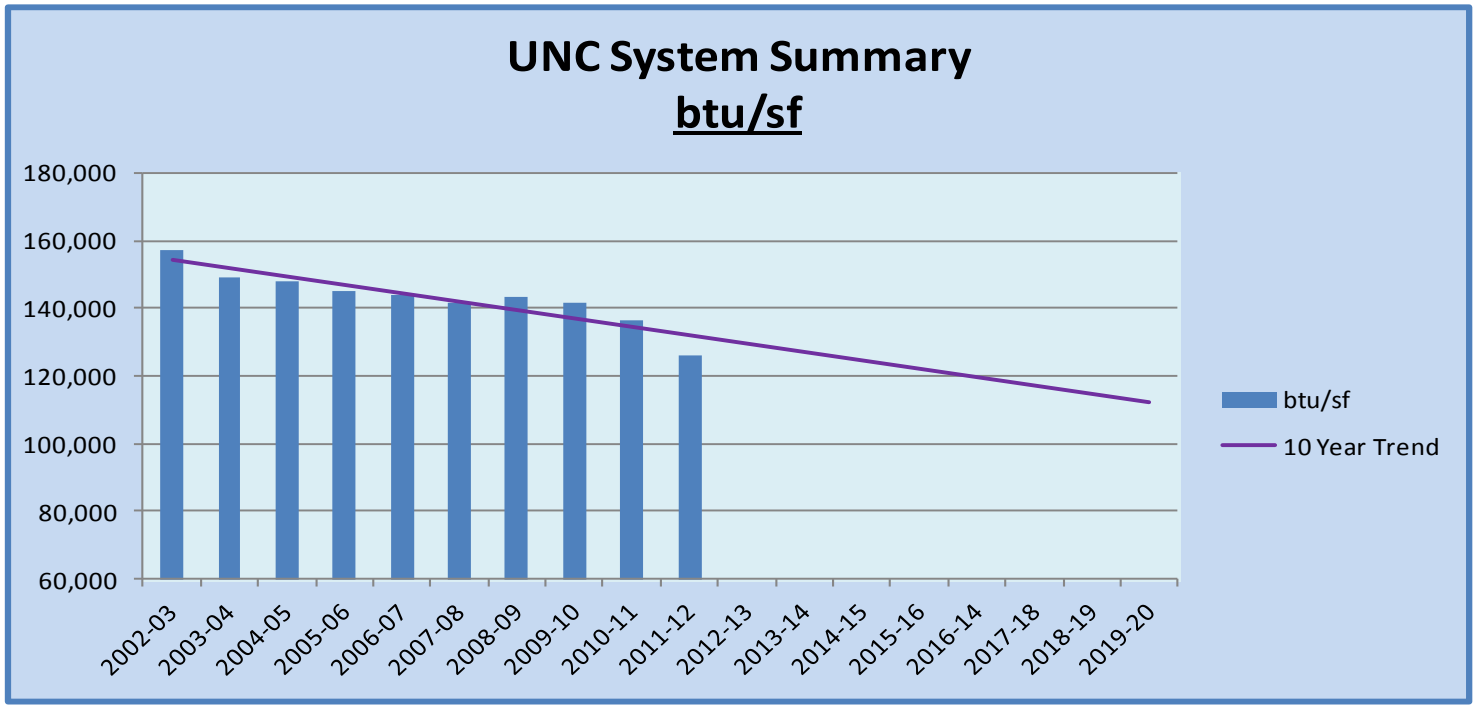


UNC System Summary

10 Year Energy Btu/sf Evaluation 2003-2012 & Trend Through 2020

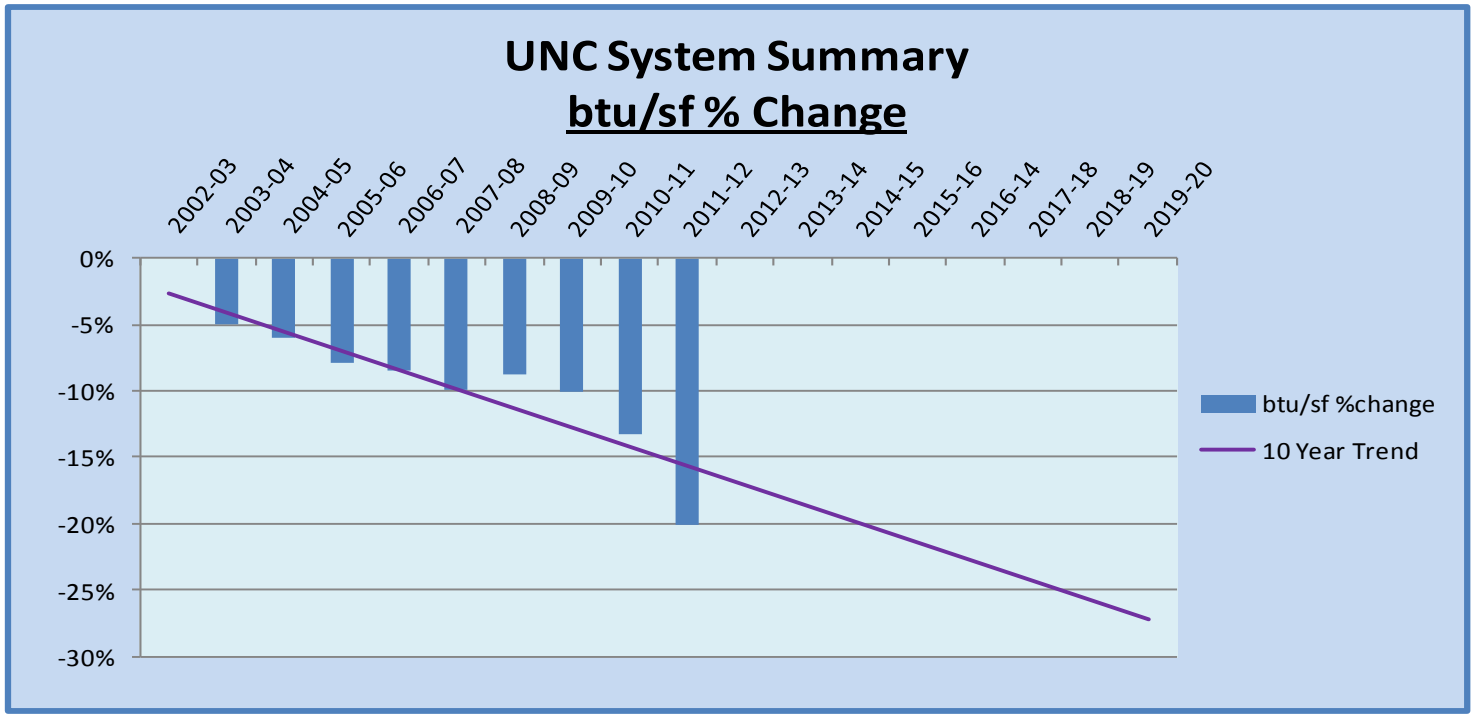
UNC System Energy Btu/sf

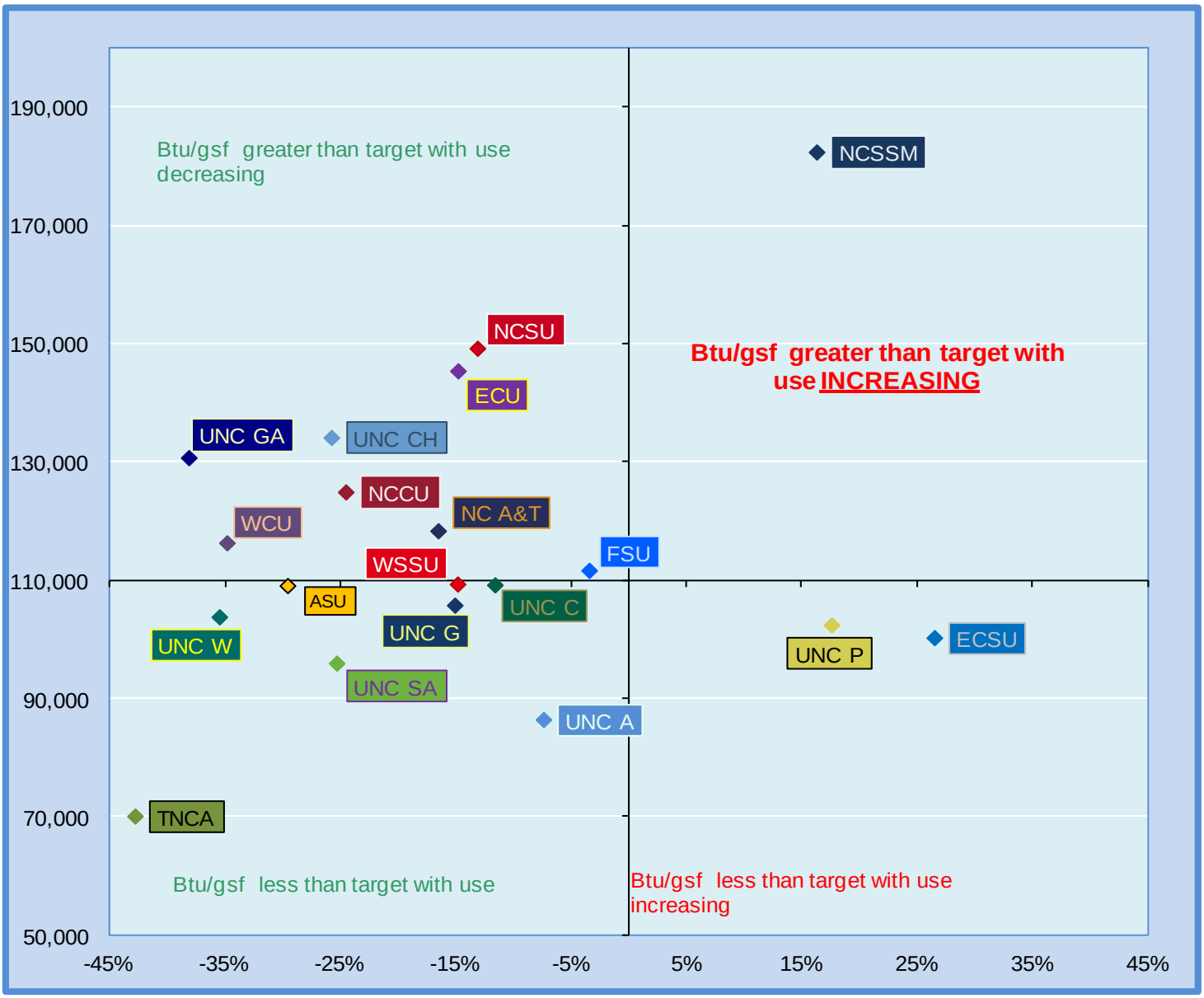
2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
157,302	149,399	147,782	144,975	144,054	141,779	143,423	141,569	136,362
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
125,791								



UNC System Energy Btu/sf % Change

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
0%	-5%	-6%	-8%	-8%	-10%	-9%	-10%	-13%
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
-20%								



UNC System Summary

Btu/gsf and % Reduction